

TEST DATA OF STMGFS154805

Regulated DC Power Supply
January 26, 2013

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Takahiro Yoneda Design Manager

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Satoshi Kinoshita Design Engineer

COSEL CO.,LTD.

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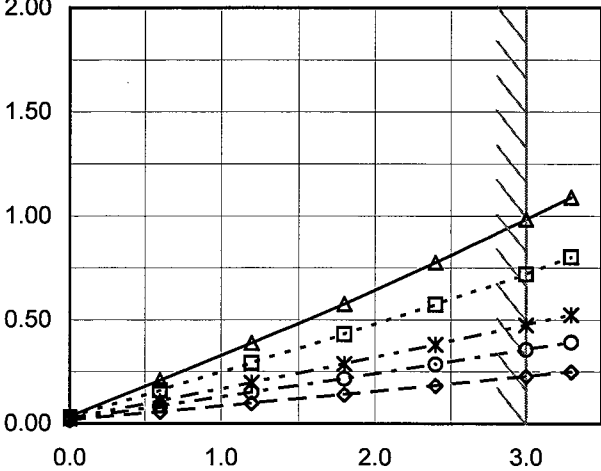
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| Model | | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--|-----------|-------------------|-------------------|--|--|---------|----------|-----------|-----|-------|-------|-------|-----|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Input Current (by Input Voltage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Load 100%</div></div><div><div>Load 50%</div></div><div><div>Load 0%</div></div></div><p>Note: Slanted line shows the range of the rated input voltage.</p></div> | | <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Load 0%</th><th>Load 50%</th><th>Load 100%</th></tr><tr><td>0.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr><tr><td>5.0</td><td>0.001</td><td>0.002</td><td>0.002</td></tr><tr><td>10.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr><tr><td>15.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr><tr><td>16.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr><tr><td>16.5</td><td>0.038</td><td>0.529</td><td>1.081</td></tr><tr><td>17.0</td><td>0.038</td><td>0.512</td><td>1.046</td></tr><tr><td>17.5</td><td>0.037</td><td>0.496</td><td>1.014</td></tr><tr><td>18.0</td><td>0.036</td><td>0.482</td><td>0.984</td></tr><tr><td>24.0</td><td>0.031</td><td>0.360</td><td>0.720</td></tr><tr><td>36.0</td><td>0.024</td><td>0.241</td><td>0.475</td></tr><tr><td>48.0</td><td>0.021</td><td>0.183</td><td>0.356</td></tr><tr><td>76.0</td><td>0.017</td><td>0.118</td><td>0.227</td></tr><tr><td>80.0</td><td>0.016</td><td>0.113</td><td>0.216</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | Input Voltage [V] | Input Current [A] | | | Load 0% | Load 50% | Load 100% | 0.0 | 0.000 | 0.000 | 0.000 | 5.0 | 0.001 | 0.002 | 0.002 | 10.0 | 0.002 | 0.002 | 0.002 | 15.0 | 0.002 | 0.002 | 0.002 | 16.0 | 0.002 | 0.002 | 0.002 | 16.5 | 0.038 | 0.529 | 1.081 | 17.0 | 0.038 | 0.512 | 1.046 | 17.5 | 0.037 | 0.496 | 1.014 | 18.0 | 0.036 | 0.482 | 0.984 | 24.0 | 0.031 | 0.360 | 0.720 | 36.0 | 0.024 | 0.241 | 0.475 | 48.0 | 0.021 | 0.183 | 0.356 | 76.0 | 0.017 | 0.118 | 0.227 | 80.0 | 0.016 | 0.113 | 0.216 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Input Voltage [V] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 0% | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.000 | 0.000 | 0.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 0.001 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.5 | 0.038 | 0.529 | 1.081 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.0 | 0.038 | 0.512 | 1.046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.5 | 0.037 | 0.496 | 1.014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18.0 | 0.036 | 0.482 | 0.984 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.0 | 0.031 | 0.360 | 0.720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36.0 | 0.024 | 0.241 | 0.475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48.0 | 0.021 | 0.183 | 0.356 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76.0 | 0.017 | 0.118 | 0.227 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80.0 | 0.016 | 0.113 | 0.216 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | | Input Current (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div>Input Volt. 18V</div><div><div>---□---</div>Input Volt. 24V</div><div><div>---*---</div>Input Volt. 36V</div><div><div>---○---</div>Input Volt. 48V</div><div><div>---◇---</div>Input Volt. 76V</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Input Current [A]</div><div></div></div> | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Input Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>0.036</td><td>0.031</td><td>0.024</td><td>0.021</td><td>0.017</td></tr><tr><td>0.6</td><td>0.209</td><td>0.159</td><td>0.110</td><td>0.085</td><td>0.057</td></tr><tr><td>1.2</td><td>0.389</td><td>0.293</td><td>0.197</td><td>0.150</td><td>0.098</td></tr><tr><td>1.8</td><td>0.576</td><td>0.431</td><td>0.287</td><td>0.216</td><td>0.140</td></tr><tr><td>2.4</td><td>0.776</td><td>0.574</td><td>0.381</td><td>0.286</td><td>0.183</td></tr><tr><td>3.0</td><td>0.984</td><td>0.720</td><td>0.475</td><td>0.356</td><td>0.227</td></tr><tr><td>3.3</td><td>1.090</td><td>0.803</td><td>0.524</td><td>0.392</td><td>0.250</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Input Current [A] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 0.036 | 0.031 | 0.024 | 0.021 | 0.017 | 0.6 | 0.209 | 0.159 | 0.110 | 0.085 | 0.057 | 1.2 | 0.389 | 0.293 | 0.197 | 0.150 | 0.098 | 1.8 | 0.576 | 0.431 | 0.287 | 0.216 | 0.140 | 2.4 | 0.776 | 0.574 | 0.381 | 0.286 | 0.183 | 3.0 | 0.984 | 0.720 | 0.475 | 0.356 | 0.227 | 3.3 | 1.090 | 0.803 | 0.524 | 0.392 | 0.250 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.036 | 0.031 | 0.024 | 0.021 | 0.017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 0.209 | 0.159 | 0.110 | 0.085 | 0.057 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.389 | 0.293 | 0.197 | 0.150 | 0.098 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 0.576 | 0.431 | 0.287 | 0.216 | 0.140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 0.776 | 0.574 | 0.381 | 0.286 | 0.183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 0.984 | 0.720 | 0.475 | 0.356 | 0.227 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 1.090 | 0.803 | 0.524 | 0.392 | 0.250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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BC - 10715

| Model | | STMGFS154805 | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------------|--|-------------------|----------------------------|-------------------|------------------|-----------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| Item | | Input Power (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>---*---</div><div>Input Volt.</div><div>36V</div></div><div><div>---○---</div><div>Input Volt.</div><div>48V</div></div><div><div>---◇---</div><div>Input Volt.</div><div>76V</div></div></div> <div><p>Input Power [W]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current.</p></div> | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Input Power [W]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>0.65</td><td>0.73</td><td>0.88</td><td>0.99</td><td>1.27</td></tr><tr><td>0.6</td><td>3.75</td><td>3.82</td><td>3.95</td><td>4.08</td><td>4.34</td></tr><tr><td>1.2</td><td>6.99</td><td>7.00</td><td>7.09</td><td>7.20</td><td>7.42</td></tr><tr><td>1.8</td><td>10.40</td><td>10.30</td><td>10.32</td><td>10.38</td><td>10.60</td></tr><tr><td>2.4</td><td>13.98</td><td>13.75</td><td>13.66</td><td>13.69</td><td>13.89</td></tr><tr><td>3.0</td><td>17.65</td><td>17.29</td><td>17.04</td><td>17.06</td><td>17.25</td></tr><tr><td>3.3</td><td>19.59</td><td>19.12</td><td>18.81</td><td>18.77</td><td>18.98</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> | | | | Load Current [A] | Input Power [W] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 0.65 | 0.73 | 0.88 | 0.99 | 1.27 | 0.6 | 3.75 | 3.82 | 3.95 | 4.08 | 4.34 | 1.2 | 6.99 | 7.00 | 7.09 | 7.20 | 7.42 | 1.8 | 10.40 | 10.30 | 10.32 | 10.38 | 10.60 | 2.4 | 13.98 | 13.75 | 13.66 | 13.69 | 13.89 | 3.0 | 17.65 | 17.29 | 17.04 | 17.06 | 17.25 | 3.3 | 19.59 | 19.12 | 18.81 | 18.77 | 18.98 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Input Power [W] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.65 | 0.73 | 0.88 | 0.99 | 1.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 3.75 | 3.82 | 3.95 | 4.08 | 4.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 6.99 | 7.00 | 7.09 | 7.20 | 7.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 10.40 | 10.30 | 10.32 | 10.38 | 10.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 13.98 | 13.75 | 13.66 | 13.69 | 13.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 17.65 | 17.29 | 17.04 | 17.06 | 17.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|---|----------------|-------------------------------|----------------|--|----------|-----------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|--|--|
| Item | | Efficiency (by Input Voltage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>Load 50%</div><div>Load 100%</div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>17</td><td>87.4</td><td>84.8</td></tr><tr><td>18</td><td>87.6</td><td>85.4</td></tr><tr><td>24</td><td>88.0</td><td>87.7</td></tr><tr><td>30</td><td>88.0</td><td>88.4</td></tr><tr><td>36</td><td>87.6</td><td>89.0</td></tr><tr><td>48</td><td>86.8</td><td>88.9</td></tr><tr><td>60</td><td>85.8</td><td>88.5</td></tr><tr><td>76</td><td>84.3</td><td>87.9</td></tr><tr><td>80</td><td>84.3</td><td>87.6</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | Input Voltage [V] | Efficiency [%] | | Load 50% | Load 100% | 17 | 87.4 | 84.8 | 18 | 87.6 | 85.4 | 24 | 88.0 | 87.7 | 30 | 88.0 | 88.4 | 36 | 87.6 | 89.0 | 48 | 86.8 | 88.9 | 60 | 85.8 | 88.5 | 76 | 84.3 | 87.9 | 80 | 84.3 | 87.6 | | |
| Input Voltage [V] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 87.4 | 84.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 87.6 | 85.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 88.0 | 87.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 88.0 | 88.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 87.6 | 89.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 86.8 | 88.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 85.8 | 88.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 84.3 | 87.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | | Efficiency (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>---*---</div><div>Input Volt.</div><div>36V</div></div><div><div>---○---</div><div>Input Volt.</div><div>48V</div></div><div><div>---◇---</div><div>Input Volt.</div><div>76V</div></div></div> <p>Efficiency [%]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Efficiency [%]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.6</td><td>81.0</td><td>79.6</td><td>76.9</td><td>74.5</td><td>70.1</td></tr><tr><td>1.2</td><td>87.0</td><td>86.9</td><td>85.7</td><td>84.5</td><td>81.9</td></tr><tr><td>1.8</td><td>87.7</td><td>88.5</td><td>88.4</td><td>87.9</td><td>86.0</td></tr><tr><td>2.4</td><td>87.0</td><td>88.4</td><td>89.0</td><td>88.8</td><td>87.5</td></tr><tr><td>3.0</td><td>85.9</td><td>87.7</td><td>89.0</td><td>88.9</td><td>87.9</td></tr><tr><td>3.3</td><td>85.1</td><td>87.3</td><td>88.7</td><td>88.9</td><td>87.9</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> | | | | Load Current [A] | Efficiency [%] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | - | - | - | - | - | 0.6 | 81.0 | 79.6 | 76.9 | 74.5 | 70.1 | 1.2 | 87.0 | 86.9 | 85.7 | 84.5 | 81.9 | 1.8 | 87.7 | 88.5 | 88.4 | 87.9 | 86.0 | 2.4 | 87.0 | 88.4 | 89.0 | 88.8 | 87.5 | 3.0 | 85.9 | 87.7 | 89.0 | 88.9 | 87.9 | 3.3 | 85.1 | 87.3 | 88.7 | 88.9 | 87.9 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
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| 1.2 | 87.0 | 86.9 | 85.7 | 84.5 | 81.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 87.7 | 88.5 | 88.4 | 87.9 | 86.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 87.0 | 88.4 | 89.0 | 88.8 | 87.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 85.9 | 87.7 | 89.0 | 88.9 | 87.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 85.1 | 87.3 | 88.7 | 88.9 | 87.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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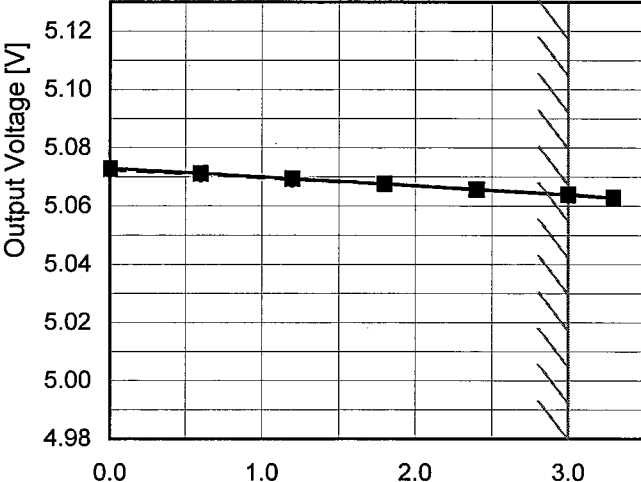
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| Model | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|---|----------|-------------------|--------------------|--|----------|-----------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|
| Item | Line Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div> <div><div>---</div><div>△</div><div>---</div></div> <div>Load 100%</div> <p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>17</td><td>5.066</td><td>5.063</td></tr><tr><td>18</td><td>5.066</td><td>5.064</td></tr><tr><td>24</td><td>5.066</td><td>5.064</td></tr><tr><td>30</td><td>5.066</td><td>5.064</td></tr><tr><td>36</td><td>5.066</td><td>5.064</td></tr><tr><td>48</td><td>5.066</td><td>5.064</td></tr><tr><td>60</td><td>5.066</td><td>5.064</td></tr><tr><td>76</td><td>5.066</td><td>5.064</td></tr><tr><td>80</td><td>5.066</td><td>5.064</td></tr></table> | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 17 | 5.066 | 5.063 | 18 | 5.066 | 5.064 | 24 | 5.066 | 5.064 | 30 | 5.066 | 5.064 | 36 | 5.066 | 5.064 | 48 | 5.066 | 5.064 | 60 | 5.066 | 5.064 | 76 | 5.066 | 5.064 | 80 | 5.066 | 5.064 |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 5.066 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 5.066 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|-------------------|--|-------------------|-------------------|------------------|--------------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| Item | Load Regulation | | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>-...*...-</div><div>Input Volt.</div><div>36V</div></div><div><div>-...○...-</div><div>Input Volt.</div><div>48V</div></div><div><div>--◇--</div><div>Input Volt.</div><div>76V</div></div></div><div></div></div></div> | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="5">Output Voltage [V]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>5.073</td><td>5.073</td><td>5.073</td><td>5.073</td><td>5.072</td></tr><tr><td>0.6</td><td>5.071</td><td>5.071</td><td>5.071</td><td>5.071</td><td>5.071</td></tr><tr><td>1.2</td><td>5.070</td><td>5.070</td><td>5.069</td><td>5.069</td><td>5.069</td></tr><tr><td>1.8</td><td>5.068</td><td>5.068</td><td>5.068</td><td>5.068</td><td>5.068</td></tr><tr><td>2.4</td><td>5.066</td><td>5.066</td><td>5.066</td><td>5.066</td><td>5.066</td></tr><tr><td>3.0</td><td>5.064</td><td>5.064</td><td>5.064</td><td>5.064</td><td>5.064</td></tr><tr><td>3.3</td><td>5.063</td><td>5.063</td><td>5.063</td><td>5.063</td><td>5.063</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> | | | Load Current [A] | Output Voltage [V] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 5.073 | 5.073 | 5.073 | 5.073 | 5.072 | 0.6 | 5.071 | 5.071 | 5.071 | 5.071 | 5.071 | 1.2 | 5.070 | 5.070 | 5.069 | 5.069 | 5.069 | 1.8 | 5.068 | 5.068 | 5.068 | 5.068 | 5.068 | 2.4 | 5.066 | 5.066 | 5.066 | 5.066 | 5.066 | 3.0 | 5.064 | 5.064 | 5.064 | 5.064 | 5.064 | 3.3 | 5.063 | 5.063 | 5.063 | 5.063 | 5.063 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.073 | 5.073 | 5.073 | 5.073 | 5.072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 5.071 | 5.071 | 5.071 | 5.071 | 5.071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 5.070 | 5.070 | 5.069 | 5.069 | 5.069 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 5.068 | 5.068 | 5.068 | 5.068 | 5.068 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 5.066 | 5.066 | 5.066 | 5.066 | 5.066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 5.064 | 5.064 | 5.064 | 5.064 | 5.064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 5.063 | 5.063 | 5.063 | 5.063 | 5.063 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | | STMGFS154805 | | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|----------------------------------|--|---|--|----------|--|------------------|---------------------|--|--------------------|--------------------|-------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|-------|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | | Ripple Voltage (by Load Current) | | Testing Circuitry | | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△— Input Volt. 18V</div><div>-·-○-·- Input Volt. 76V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 76 [V]</th></tr><tr><td>0.000</td><td>10</td><td>10</td></tr><tr><td>0.600</td><td>10</td><td>10</td></tr><tr><td>1.200</td><td>10</td><td>10</td></tr><tr><td>1.800</td><td>10</td><td>10</td></tr><tr><td>2.400</td><td>10</td><td>10</td></tr><tr><td>3.000</td><td>10</td><td>15</td></tr><tr><td>3.300</td><td>10</td><td>15</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | | | | Load Current [A] | Ripple Voltage [mV] | | Input Volt. 18 [V] | Input Volt. 76 [V] | 0.000 | 10 | 10 | 0.600 | 10 | 10 | 1.200 | 10 | 10 | 1.800 | 10 | 10 | 2.400 | 10 | 10 | 3.000 | 10 | 15 | 3.300 | 10 | 15 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18 [V] | Input Volt. 76 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.600 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.200 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.800 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.400 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 | 10 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.300 | 10 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Model | | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|---|--|------------------|-------------------|--|--------------------|--------------------|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | | Ripple-Noise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt. 18V</div><div>Input Volt. 76V</div></div></div><div><p>Ripple-Noise [mV]</p><p>Load Current [A]</p></div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 18 [V]</th><th>Input Volt. 76 [V]</th></tr><tr><td>0.0</td><td>20</td><td>25</td></tr><tr><td>0.6</td><td>30</td><td>30</td></tr><tr><td>1.2</td><td>30</td><td>30</td></tr><tr><td>1.8</td><td>30</td><td>35</td></tr><tr><td>2.4</td><td>35</td><td>35</td></tr><tr><td>3.0</td><td>35</td><td>35</td></tr><tr><td>3.3</td><td>35</td><td>35</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Ripple-Noise [mV] | | Input Volt. 18 [V] | Input Volt. 76 [V] | 0.0 | 20 | 25 | 0.6 | 30 | 30 | 1.2 | 30 | 30 | 1.8 | 30 | 35 | 2.4 | 35 | 35 | 3.0 | 35 | 35 | 3.3 | 35 | 35 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple-Noise [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18 [V] | Input Volt. 76 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 30 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 35 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 35 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 35 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope.</p> <p>Ripple-Noise is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><p>Ripple Noise[mVp-p]</p></div></div> <p>Fig.Complex Ripple Noise Wave Form</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|---|--|-----------------------------------|--|
| Model | | STMGFS154805 | |
| Item | | Ripple Voltage (by Ambient Temp.) | |
| Object | | +5V3A | |
| 1.Graph | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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| | |
|---------|---|
| Model | STMGFS154805 |
| Item | Ambient Temperature Drift |
| Object | +5V3A |
| 1.Graph | <div> <div> <div>—△—</div> <div>Input Volt.</div> <div>18V</div> </div> <div> <div>---□---</div> <div>Input Volt.</div> <div>24V</div> </div> <div> <div>---*---</div> <div>Input Volt.</div> <div>36V</div> </div> <div> <div>---○---</div> <div>Input Volt.</div> <div>48V</div> </div> <div> <div>---◇---</div> <div>Input Volt.</div> <div>76V</div> </div> </div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> |

Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Output Voltage [V] | | | | |
|--------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] |
| -40 | 5.037 | 5.037 | 5.037 | 5.038 | 5.038 |
| -20 | 5.048 | 5.048 | 5.048 | 5.049 | 5.049 |
| 0 | 5.056 | 5.056 | 5.056 | 5.056 | 5.057 |
| 10 | 5.059 | 5.059 | 5.059 | 5.060 | 5.060 |
| 25 | 5.064 | 5.064 | 5.064 | 5.064 | 5.064 |
| 30 | 5.064 | 5.064 | 5.064 | 5.064 | 5.064 |
| 40 | 5.065 | 5.065 | 5.066 | 5.066 | 5.066 |
| 50 | 5.067 | 5.067 | 5.067 | 5.067 | 5.067 |
| 60 | 5.068 | 5.068 | 5.068 | 5.068 | 5.068 |
| 65 | 5.068 | 5.068 | 5.068 | 5.068 | 5.068 |
| -- | - | - | - | - | - |

COSEL

| | | |
|--------|-------------------------|----------------------------|
| | | Testing Circuitry Figure A |
| Model | STMGFS154805 | |
| Item | Output Voltage Accuracy | |
| Object | +5V3A | |

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -20 - 60°C

Input Voltage : 18 - 76V

Load Current : 0 - 3A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

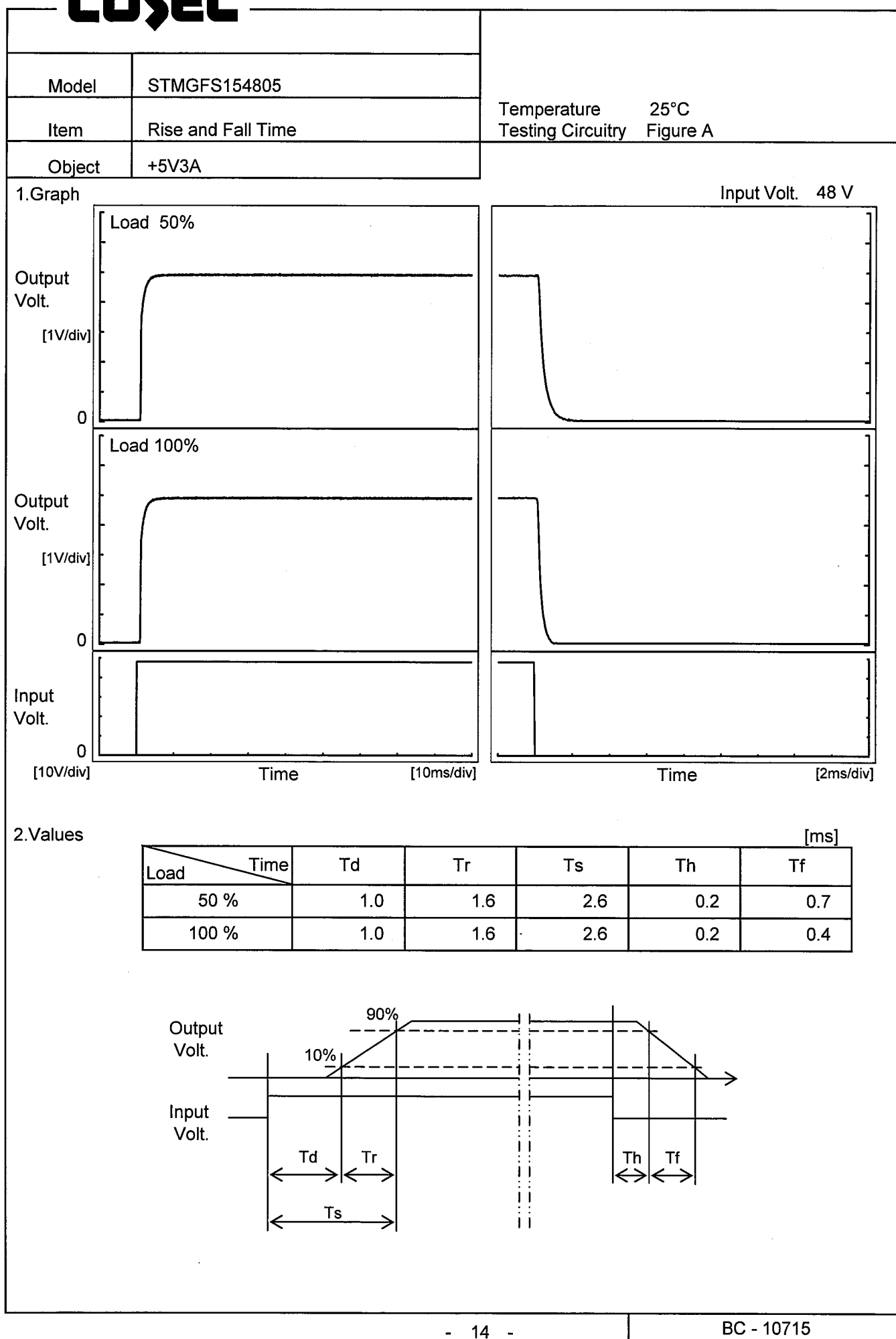
2. Values

| Item | Temperature [°C] | Input Voltage[V] | Output | | Output Voltage Accuracy | |
|-----------------|---------------------|---------------------|------------|------------|-------------------------|------------|
| | | | Current[A] | Voltage[V] | Value [mV] | Ration [%] |
| Maximum Voltage | 60 | 18 | 0 | 5.077 | ±15 | ±0.3 |
| Minimum Voltage | -20 | 18 | 3 | 5.048 | | |

COSEL

| Model | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|----------|----------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Item | Time Lapse Drift | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div><div>4.98</div></div><div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Output Voltage [V]</div><div>Time [H]</div></div></div><div><div>Input Volt.</div><div>Load</div></div><div><div>48V</div><div>100%</div></div></div></div> | | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.061</td></tr><tr><td>0.5</td><td>5.065</td></tr><tr><td>1.0</td><td>5.065</td></tr><tr><td>2.0</td><td>5.065</td></tr><tr><td>3.0</td><td>5.065</td></tr><tr><td>4.0</td><td>5.065</td></tr><tr><td>5.0</td><td>5.065</td></tr><tr><td>6.0</td><td>5.065</td></tr><tr><td>7.0</td><td>5.065</td></tr><tr><td>8.0</td><td>5.065</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | 5.061 | 0.5 | 5.065 | 1.0 | 5.065 | 2.0 | 5.065 | 3.0 | 5.065 | 4.0 | 5.065 | 5.0 | 5.065 | 6.0 | 5.065 | 7.0 | 5.065 | 8.0 | 5.065 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.061 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 5.065 | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL



| Model | STMGFS154805 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|-----------------------------|----------------------|--|----------|-----------|-----|------|------|-----|------|------|---|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|---|---|
| Item | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div> <div> <div>---</div> <div>□</div> <div>---</div> <div>Load 50%</div> </div> <div> <div>—</div> <div>△</div> <div>—</div> <div>Load 100%</div> </div> </div> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | <table> <tr> <th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> <tr><td>-40</td><td>16.0</td><td>16.1</td></tr> <tr><td>-20</td><td>16.0</td><td>16.1</td></tr> <tr><td>0</td><td>16.2</td><td>16.1</td></tr> <tr><td>10</td><td>16.2</td><td>16.3</td></tr> <tr><td>25</td><td>16.2</td><td>16.3</td></tr> <tr><td>30</td><td>16.2</td><td>16.3</td></tr> <tr><td>40</td><td>16.2</td><td>16.3</td></tr> <tr><td>50</td><td>16.2</td><td>16.3</td></tr> <tr><td>60</td><td>16.2</td><td>16.3</td></tr> <tr><td>65</td><td>16.2</td><td>16.3</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </table> | Ambient Temperature [°C] | Input Voltage [V] | | Load 50% | Load 100% | -40 | 16.0 | 16.1 | -20 | 16.0 | 16.1 | 0 | 16.2 | 16.1 | 10 | 16.2 | 16.3 | 25 | 16.2 | 16.3 | 30 | 16.2 | 16.3 | 40 | 16.2 | 16.3 | 50 | 16.2 | 16.3 | 60 | 16.2 | 16.3 | 65 | 16.2 | 16.3 | -- | - | - |
| Ambient Temperature [°C] | Input Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 16.0 | 16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 16.0 | 16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 16.2 | 16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 16.2 | 16.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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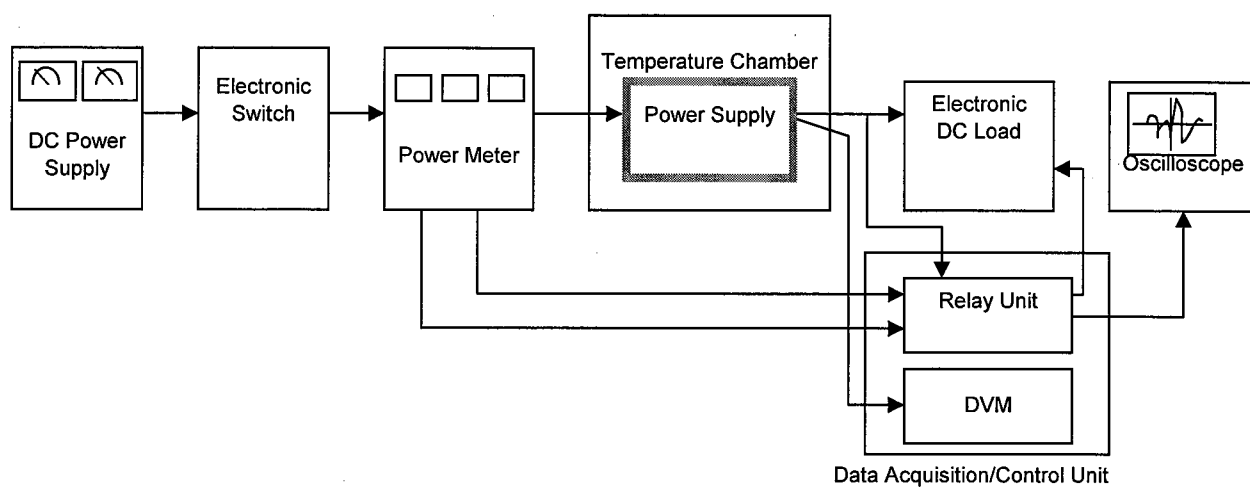


Figure A

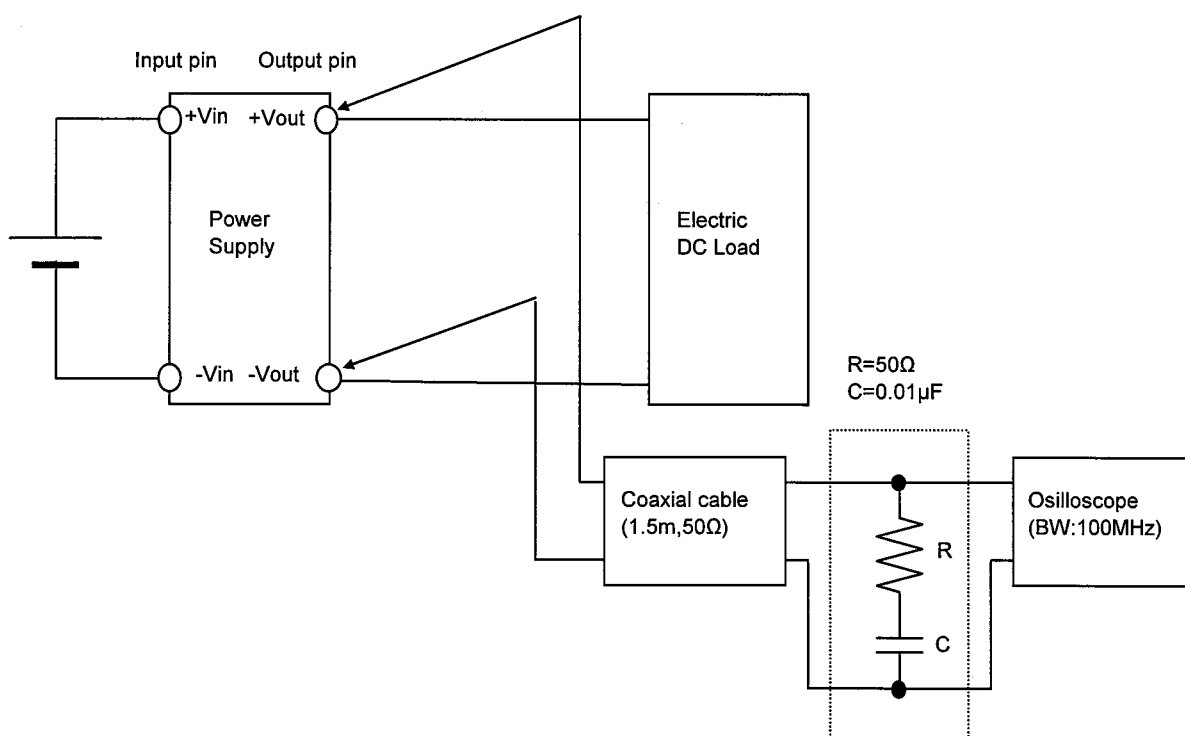


Figure B (Ripple and Ripple noise Characteristic)